User manual

High definition digital satellite receiver

Model ID: 7101

English 3/2009 jp

Contents

1. Safety precautions 4
2. Environment protection 6
3. Features 7
4. Remote Control 8
5. Front panel 10
6. Rear panel 11
7. Connecting 12
8. Getting started 14
   - 8.1. Easy install 14
   - 8.2. Box Setting 14
   - 8.3. Install Setting 14
9. Menu operations 14
   - 9.1. Service 14
     - 9.1.1. Organizing services 14
     - 9.1.2. Organizing favourites 15
   - 9.2. Installation 15
     - 9.2.1. Manual installation 15
     - 9.2.2. Auto Installation 17
     - 9.2.3. Guidance of installing a dish 18
     - 9.2.4. Factory Default 18
   - 9.3. PVR (optional, only for PVR ready receivers) 18
     - 9.3.1. File List 18
     - 9.3.2. MP3 Player 19
     - 9.3.3. HDD Format 19
     - 9.3.4. Record List 20
     - 9.3.5. Time Shift setting 20
   - 9.4. Preference 20
     - 9.4.1. Language 20
     - 9.4.2. Parental Control 21
     - 9.4.3. Time setting 21
     - 9.4.4. A/V Control 22
     - 9.4.5. UHF Setting 22
     - 9.4.6. Miscellaneous Setting 22
   - 9.5. System 22
     - 9.5.1. System Information 22
     - 9.5.2. Upgrade RS232 23
     - 9.5.3. Upgrade from HDD 23
     - 9.5.4. Backup to HDD 23
     - 9.5.5. Contact 24
   - 9.6. Conditional Access (optional) 24
     - 9.6.1. Smart card 24
     - 9.6.2. Common interface (optional) 24
   - 9.7. Internet (optional) 24
     - 9.7.1. Net config 25
     - 9.7.2. Lan Settings 25
     - 9.7.3. Net Manual Upgrade 25
   - 9.8. Game 25
     - 9.8.1. Sokoban 25
     - 9.8.2. Tetris 26
     - 9.8.3. Landmine 26
     - 9.8.4. Speed 26
10. Function guide 27
    - 10.1. Ok list 27
    - 10.2. EPG 27
    - 10.3. Information Box 28
    - 10.4. Changing Services 29
    - 10.5. Volume Control 29
    - 10.6. Sound track & Multifeed Audio 29
    - 10.7. Teletext & Subtitle 29
    - 10.8. Pause & Resume 29

10.9. Zoom 29
10.10. Time Shift (optional, only for PVR ready receivers) 29
10.11. Recording, Edit the reserved delayed Recording (optional, only for PVR Ready receivers) 30
10.12. Immediate Recording by RECORD ● button (optional, only for PVR Ready receivers) 30
10.13. Recording by EPG (optional, only for PVR Ready receivers) 31
10.14. Playback a Recorded Service (optional, only for PVR Ready receivers) 31
10.15. Slow Motion Playback 32
10.16. Fast Motion Playback 32
10.17. MP3 Player 32
10.18. JPEG Player 33
10.19. Picture In Picture (PIP) 33
10.20. Multi-Picture Display 33
11. Software Upgrade 34
12. Trouble Shooting 35
13. Specifications 36
14. Declaration of conformity 38

1. Safety precautions

CAUTION:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to "dangerous voltage" and to prevent from a risk of electric shock.

Warning:
To reduce the risk of electric shock, don't open the cabinet. Refer servicing to qualified personnel only.

The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

WARNING: Do not use this STB where contact with or immersion in water is a possibility. Do not use near flower vase, washbowls, kitchen sinks, laundry tubs, swimming pools, etc.

WARNING: Do not put the candle or lamp stand on the cabinet; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example, 120 or 230 V) to your home, consult your local dealer or local power company.

WARNING: This product install diodes. Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required.

Note: To ensure proper use of this product, please read this User manual carefully and retain for further reference.

Note: This product install diodes. Do not open the cabinet to avoid the unit direct exposure to radiation.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock, or other personal injury.

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the STB on a bed, sofa, or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this STB through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the STB.

Note: Moisture may be formed on the lens In the following conditions:

- when the unit is suddenly moved from a cold environment or an air-condition room to a warm place.
- immediately after a heater has been turned on.
- in a steamy or very humid room.

If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit In the risk of fire, electric shock or other hazards.

Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is In the proper condition.

2. Environment protection

Attention!
Your product Is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

Information on Disposal for Users (private households) in the European Union
Used electrical and electronic equipment must be treated separately and In accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one. *) Please contact your local authority for further details.
If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.
By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

Information on Disposal for Business Users
In the European Union
If the product is used for business purposes and you want to discard It:
Please contact your dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling Small products (and small amounts) might be taken back by your local collection facilities,

In other Countries outside the EU
If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

3. Features

- MPEG-Fully DVB-S / DVB-S2 (H.264) HD compliant
- 8000 channels (TV and Radio) programmable
- Multilingual menu text support
- Channel switching time less than 1 second
- Channel list editing
- Favorite channel list editing
- True-color On-Screen Display (OSD)
- Full Picture In Graphic (PIG) function
- Electronic Program Guide (EPG) for on screen channel information
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- Parental lock facility by channel and program event
- Program and Channel information transfer from receiver to receiver
- Exciting games embedded
- S/PDIF for digital audio or Dolby AC-3 bitstream output
- DiSEqC 1.0, 1.1, 1.2 and USALS
- HDMI HD Video/Audio Output
- Dual Decoding (PIP)
- Software update via LAN port
- USB 2.0 Host
- VFD Display for service information
- RTC (Real-Time-Clock)
- LAN 10/100 Mbps Ethernet (optional)
- Time Shift (optional, only for PVR Ready receivers)
- Video Recording (optional, only for PVR Ready receivers)
- Recording 2 channels the same time, watching 3rd channel (within 1 transponder) (optional, only for PVR Ready receivers)
- Recording one channel and TimeShifting another channel (optional, only for PVR Ready receivers)
- Recording one channel and PIP another channel within the same transponder (optional, only for PVR Ready receivers)

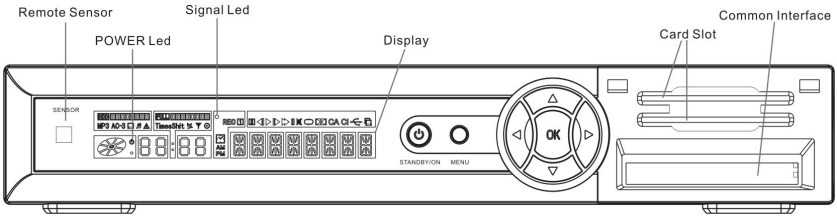
4. Remote Control

You can power on/off the receiver, operate on screen menu, and use a variety of hot key function.

POWER	Switch the PVR between Operation and Standby mode. Włączanie lub przełączanie w stan czuwania Standby.
SLEEP	Display the sleep time. At the sleep time, the power is automatically turn OFF and the PVR goes to the STANDBY mode.
UHF	Display and alter the UHF setting in menu.
V.Format	Switch the TV Standard on the Screen. If you have problem with setting video format, switch this button between until setting the best video resolution
MUTE	Enable / Disable the Audio.
TV/SAT	Switch TV or AV mode on the screen.
TV/ Radio	Select the TV/ Radio mode.
FIND	Find service by name in service list, organizing services, EPG menu and normal picture mode.
FAV	Display the favorite service list.
(0~9) Numeric buttons	Select the TV or Radio services and menu options.
MENU	Display the Menu on screen or return to previous menu from submenu.
Zoom	Enable the zoom function.
INFO	Display the program information box on the screen.
EPG	Display the EPG on screen when available.
EXIT	Return to the screen.
▲, ▼	Service up or down through the available services.
◀, ▶	Adjust the volume (Decrease/ Increase).
OK	Display Service List on screen. Select an item in the menu.
RECALL	Select the previously viewed service.
●	(Optional, only for PVR Ready receivers) To start the recording.

▶	(Optional, only for PVR Ready receivers) Display the progress bar of time shift or playback when no progress bar is displayed.Start playback with normal speed. Return to normal speed from trick mode.
■	(Optional, only for PVR Ready receivers) Stop time shift, playback or recording. Stop the MP3 or JPEG player.
❚❚	Pause the playback and live picture.
◀❚/❚▶	(Optional, only for PVR Ready receivers) Start slow motion playback.
◀◀	(Optional, only for PVR Ready receivers) Fast rewind when the progress bar is displayed. Start reverse playback. Change the speed of reverse playback.
▶▶	(Optional, only for PVR Ready receivers) Start fast forward or fast motion playback. Change the speed of forward playback.
P+/ P-	Move up or down pages on the menus or service list.
⏮	(Optional, only for PVR Ready receivers) Move the position of Sub-picture at the PIP by counter clockwise.
⏭	⏭ Button (Optional, only for PVR Ready receivers) Move the position of Sub-picture at the PIP by clockwise.
Archiv	Display file list.
	Exchange main-picture with sub-picture at the PIP. Exchange MP3 Player with JPEG Player.
(Biały)	Select the play mode in MP3 or JPEG player.
	To remove the USB Hard Disk safely.
?	Select Sound Track and the multilingual if multilingual is available.
SAT	Display the satellite list at normal picture.
PIP (Czerwony)	Is turning on PIP function
TELETEXT (Zielony)	Enable the teletext.
SUBTITLE (Żółty)	Activate the subtitle selection Window. Select the subtitle language in the list.
Multi-Picture (Niebieski)	Display Multi-Picture menu on the screen.

5. Front panel

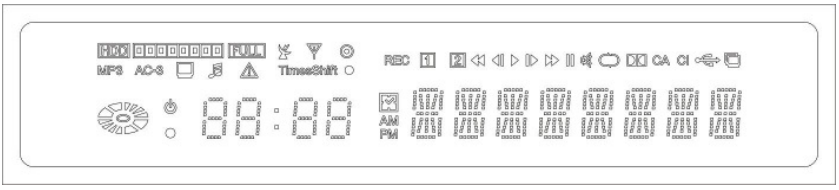


POWER KEY: To switch the receiver power on/stand by
MENU KEY : To enter into the main menu.
<,> KEY: To adjust volume level, or to move cursor left or right in the menu.
^, v KEY : To change channels, or to move cursor up or down in the menu
OK KEY: To see TV/Radio channel list, or to confirm in the menu.
Remote Sensor: Detects infrared signal from remote control unit
POWER Led: Lights up while the receiver is power on.
Signal Led: When receiving signal is strong, the signal led is lighted.
Card Slot: One or two (optional) slots CA Interface for Conax,

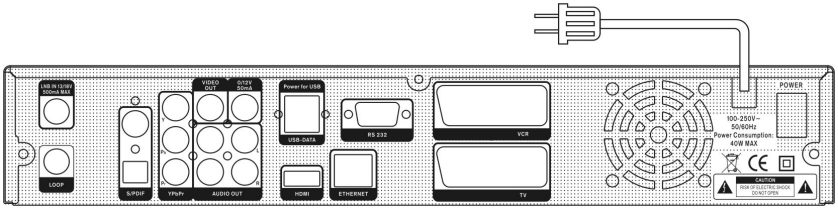
Insert the smart card chip side up!

Common Interface: Two socket for Conditional Access Modules CAM (optional).
Display : (VFD type) Indicates operating status of receiver

VFD Display:



6. Rear panel



Please refer to the diagram above for all possible connections of your receiver. Do not connect the unit to the mains socket until all other connections have been made and checked. Your configuration can vary depending on model

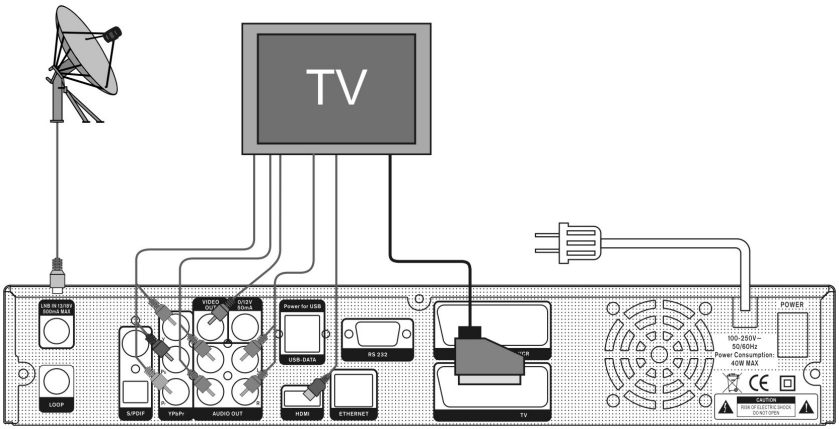
POWER ON/OFF SWITCH: To switch ON/OFF the receiver power supply.
LOOP: This enables the connection of another receiver.
LNB IN 13/18V 500mA MAX: This port is to connect the coaxial cable from LNB of your Dish.
TV : This is used to connect your TV through SCART cable.
VCR: Audio and Video input/output socket for the Video cassette recorder or suchlike.
VIDEO : This RCA connector is used to connect any external video.
0/12V 50mA: This is used to Connect 12V to an external 0V/12V switch.
AUDIO R/L : These RCA connectors are used to connect any external audio amp or system.
S/PDIF: Digital Audio interface, connect to AV amplifier S/PDIF input terminal.
HDMI: Audio and Video output socket for TV set with HDMI Input Jack only.
Power for USB: USB port for additional power only, for some of USB hard disk drives.
WARNING! Do not connect standalone USB devices to this port!
USB-Data: USB 2.0 Host, connect to USB hard disk, or flash disk
RS 232C SERIAL PORT: This is used to connect your receiver to a computer through a serial cable.
Ethernet: (optional) Network port, you can get a new software updates from this port.
YPbPr: Component video output socket for the television set.

7. Connecting

There are four ways to connect the receiver to your existing TV system. We recommend using one of the following cases for the best result:

1. If you have a high definition television set, you should use a HDMI cable for best result, Plug one end of the cable into the HDMI socket on the receiver, and the other end into the matching socket on your television. In this case, you do not have to make audio connections because the HDMI connector can output stereo audio or Dolby digital audio.
2. Connect one end of SCART cable to the TV (SCART) jack on the back of the receiver and the other end to a SCART jack on your TV.
3. Connect one end of RCA cable to the RCA jack on the back of the receiver and the other end to a RCA jack on your TV.
4. You will need to obtain a component video Cable (RCA cable) to use the component video connector, Plug one end of the Cables into the Y(Green), Pb(Blue) and Pr(Red) Sockets on the digital receiver, and the other end into the matching sockets on your television.

Finally connect the coaxial cable from the LNB to the LNB IN jack on the receiver.



Connecting with external audio / Hi-Fi system

To connect any external Audio Hi-Fi system, the receiver has been provided with two RCA connectors at the back of the receiver marked with Audio L and R. Connect an RCA stereo cable from the AUDIO L, R jacks on the back of the receiver to the LINE, AUX, SPARE OR EXTRA input jacks on your Hi-Fi System.

Connecting with Motorized System (DiSEqC 1.2)

Connect one end of your coaxial cable to the LNB IN connector on the receiver and the other end to the REC or Receiver connector on the DiSEqC 1.2 motor. Connect the coaxial cable from the LNB to the LNB connector on the DiSEqC 1.2 motor.

All our receivers are designed to be DiSEqC 1.0 and DiSEqC 1.2 compatible. This allows multiple antennas to be connected to the receiver at the same time.

If you have two or more fixed antennas or LNBs, then we recommend you use a DiSEqC 1.0 switch.

Connect the coaxial cable from the first LNB to the LNB 1 or LNB A input connector of the DiSEqC switch. Do the same for any other LNBs that you have. Connect one end of a coaxial cable to the RF output connector of the DiSEqC switch, connect the other end to the LNB IN socket on the receiver.

To the digital receiver, you can connect either a single satellite antenna directly or LNB of multi-feed equipment.

8. Getting started

8.1. Easy install

Press the ⏻ button to operate the receiver from "Standby" mode. If you did not install it before, the "Easy Install" Menu will be displayed automatically to guide you to install your box and dish

*Notice: There are two parts, Box Setting and Install Setting. Please follow the indication in this menu one step by one.

8.2. Box Setting

- **Language**

Choose Menu Language. Go to next.

- **Time Setting**

Set Current Date and Time. Go to next.

- **Parental Control**

Set Password, Receiver Lock and Censorship Classification. Go to next to enter in Install Setting.

8.3. Install Setting

Choose one from the following items: "Install your dish", "Automatic install satellite and search channel" and "Manually install satellite and search channel".

- **Install your dish**

Install one satellite, Press ▭ button (Red) to edit it. It will automatically calculate the elevation and azimuth for certain satellite according to the local longitude and latitude you entered. Set the longitude and latitude by pressing 0~9 and ◀, ▶ buttons, and you get the elevation and azimuth information from the menu. Then go to next.

Adjust your dish depend on the intensity and quality. Press ▭ button (Red) to edit satellite as above, press " **OK** " button to select TP. Then go to next.

Adjust your dish depend on the SNR and BER. Press ▭ button (Red) to edit satellite as above, press " **OK** " button to select TP. Then go to next.

Choose one from the following items: "Install another satellite" and "Complete installing dish and search channels". For "Install another satellite", you need to install another satellite as the above step by step. For "Complete installing dish and search channels", you need to set the Scan Mode and Network, then press " **OK** " button to do scan.

- **Automatic install satellite and search channel**

The receiver will detect your antenna and search available signals and download services for you automatically.

- **Manually install satellite and search channel**

You need to choose your interested satellites and set right parameters for LNB Type, 22KHz Tone, 12V, DiSEqC1.0 or Motorized DiSEqC1.2 or USALS items, then press ▭ button (Red) to do scan to complete install. For more details, please refer to the chapter "Manual Installation" of "Menu Operations".

9. Menu operations

Now this chapter assumes that the HD Receiver system has been installed correctly, meaning:

- The satellite antenna for the HD Receiver has been installed, connected to the HD Receiver.
- The HD Receiver is connected to the TV.
- The RCU has batteries and ready to control the HD Receiver.

If the HD Receiver has not been installed or connected properly, please refer to the Connecting your equipment on this manual.

Many of the functions of the HD Receiver are available from the Main Menu. Press " **MENU** " button to open it.

9.1. Service

9.1.1. Organizing services.

This menu can be used to move, lock, hide, rename and delete Services.

- **Move**

You can reorder and move the service to the preferred position. Mark the desired services using " **OK** " button, use ▶ button to choose Move mode and press " **OK** " button, then use ▲, ▼ buttons to move and press " **OK** " button to confirm.

- **Lock**

You can restrain and lock the services. Mark the desired services using " **OK** " button, use ▶ button to choose Lock mode and press " **OK** " button to confirm.

- **Delete**

You can delete the services. Mark the desired services using " **OK** " button, use ▶ button to choose Delete mode and press " **OK** " button to confirm.

- **Rename**

Mark the service you want to rename, use ▶ button to select Rename item and press " **OK** " button to display keyboard, and rename it. After renaming it press ▭ (Red) button to save.

- **Skip**

You can restrain and Skip (hide) the services. Mark the desired services using " **OK** " button, use ▶ button to choose Skip mode and press " **OK** " button to confirm.

- **(Red) Group**

It is very useful to select services with different Groups.

(Green) Options

It is very convenient function to Mark the desired services with different options.

- **Service Found**

It is an item to locate certain service by name quickly. Press button to display the "Find" submenu, use keyboard to enter service name and press button again to select the desired services.

Press *i* button to check the detail information if necessarily.

- ***i*** **info display**

Press *i* button to display the detail information about the selected service.

9.1.2. Organizing favourites

This menu is helpful in adding and deleting services to and from the favorite group.

- **FAV List**

To choose the FAV List by press "FAV" button.

- **Add**

To add services into favorites, Mark the desired services by press " **OK** " button in Service List, press ▶ to choose Add mode and press " **OK** " button.

- **Remove**

To remove services from favorites, Mark the desired services by press " **OK** " button in Favorite List, press ◀ to choose Remove mode and press " **OK** " button.

- **Move**

You can reorder and move the service to the preferred position in Favorite List.

- **Rename**

Select the desired FAV List by press "**FAV**" button, using ◀, ▶ buttons to choose Rename mode and press " **OK** " button to display keyboard, and rename it.

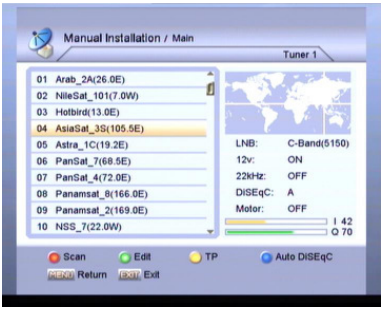
After renaming it press (Red) button to save.

- **Group, Options, Service Found and Detail Information** display

Please refer to the "Organizing Services" part in this manual.

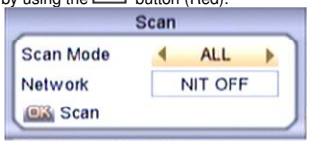
9.2. Installation

9.2.1. Manual installation



A. **(Red) Scan**

Select one or more satellites which preprogrammed correspond to the direction of the antenna in the satellite list by using the " **OK** " button, to go to the Scan menu by using the button (Red).



- **Scan Mode**

Choose your favorable services you want to search among ALL, FTA, ALL_TV, FTA_TV, ALL_Radio and FTA_Radio.

- **Network**

If the Network item is set to On and the NIT (Network Information Table) is available, the Transponder's information can be found.

- **" OK " Scan**

To start the searching process, press" **OK** " button.

To stop the searching process on the way, press either the " **MENU** " button or the" **EXIT** "button. This menu

will be shown as long as the PVR is searching for services. All services found will be listed in two columns on the screen with TV services in one column and Radio services in the other. Please note that the search procedure may take a few minutes.

When the search procedure is completed, the screen will show the Confirm info box. Select YES to save the services.

B. (Green) Edit

- **TP**

Selects the Transponder to catch the strong signal.

- **LNB**

Select the L.O. Frequency of the LNB among C-Band(5150), Ku-Band(11300), Universal(9750/10600), LowBand(9750), HighBand(10600), One Cable L and One Cable H by using (add left-key and right-key button icon) buttons.

Also you can insert LNB frequency by using Numeric key of the RCU when on the User(xxx) item

- **22kHz**

If you are using a 22KHz tone switch box, make 22kHz tone switch ON or OFF to select LNB or antenna.

NOTE: If the LNB is set to Universal(9750/10600), it is not possible to set 22kHz because high or low band is selected by 22kHz.

- **12V**

Switch ON or OFF to enable or disable the 12V DC power supply.

- **DiSEqC 1.0**

The PVR is designed to be DiSEqC 1.0 compatible. This allows multiple antenna to be connected to the PVR at the same time. If you are using two or more fixed antenna or LNBs, then it is recommended to use a DiSEqC 1.0 switch.

Select one of DiSEqC A, DiSEqC B, DiSEqC C, DiSEqC D or OFF according to the option or the configuration of DiSEqC switch box or antenna.

- **DiSEqC 1.1**

The PVR is designed to be DiSEqC 1.1 compatible. This allows multiple antenna to be connected to the PVR at the same time. If you are using two or more fixed antenna or LNBs, then it is recommended to use a DiSEqC 1.1 switch.

It is possible to connect up to 16 antennas. Select one of 1 to 16 or OFF according to the option or the configuration of DiSEqC switch box or antenna.

- **Power**

Select the LNB voltage among 13, 18, 13/18, 13.5, 18.5, 13.5/18.5 and OFF by using " **OK** " button or ◀, ▶ buttons.

- **(Red) Scan**

To go to Scan menu directly from this menu, press button at this menu.

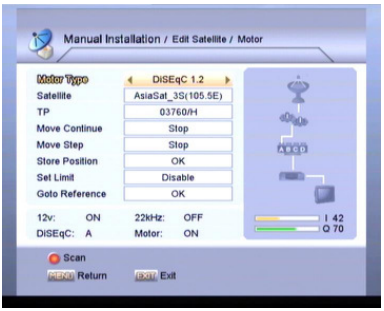
- **(Green) Rename**

Change the satellite name using keyboard popped on the screen, then press button to Confirm it.

- **(Yellow) Motor**

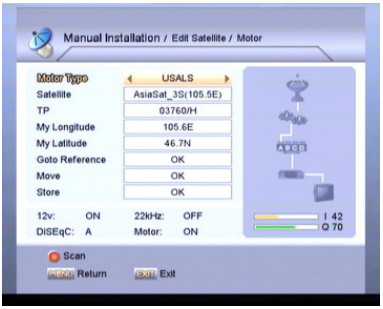
If you have DiSEqC 1.2 or USALS motorized system, then you can use their functions by press button(yellow).

- **DiSEqC 1.2**



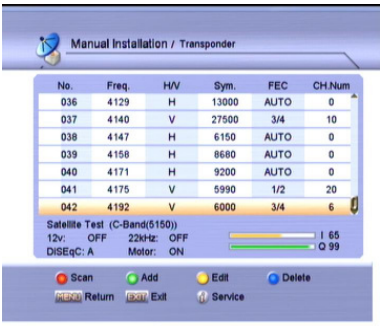
- **Satellite:**Select a satellite that will be used to identify a motor position.
- **TP:** Select the transponder to catch the strong signal.
- **Move Continue:** To adjust the position of the antenna using East, West command by press ◀, ▶ buttons.
- **Move Step**: To adjust the position step by step using East, West command by press ◀, ▶ buttons.
- **Store Position**: To store the current position of the motor for the selected satellite.
- **Set Limit**: Set the limits of East, West position.
- **Goto Reference:** To go to reference position.
- **(Red) Scan**: To go to Scan menu directly from this menu.

- **USALS**



- **Satellite:** Select a satellite that will be used to identify a motor position.
- **TP:** Select the transponder to catch the strong signal.
- **My Longitude:** it means the longitude of your location. You can use numeric keys of RCU to enter the angle. East or West will be selected by ◀ , ▶ buttons.
- **My Latitude:** it means the latitude of your location. You can use numeric keys of RCU to enter the angle. South or North will be selected by ◀ , ▶ buttons.
- **Goto Reference:** to go to reference position.
- **Move:** after setting the Longitude and the Latitude of the location, press " **OK** " button, the dish will move to the desired position automatically.
- **Store:** to store the current position of the dish.
- **(Red) Scan:** To go to Scan menu directly from this menu.
- **(Blue) Auto DiSEqC -** Refer to the Auto DiSEqC in the following.

C. (Yellow)TP



- **(Red) Scan**

To go to Scan menu directly from this menu.

- **(Green) Add**

To add a new TP to the TP list of the selected satellite.

- **(Yellow) Edit**

To edit the parameters (Frequency, Polarization, Symbol rate and FEC) of selected TP.

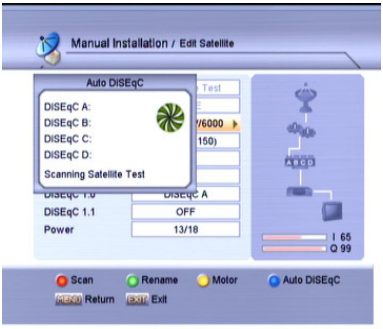
- **(Blue) Delete**

To delete the TPs selected using (add ok key icon) button.

- **Service**

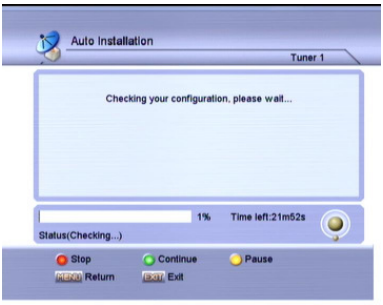
Press *i* button to display the detail information about the selected TP, all services belonged to the TP will displayed in the list.

D. (Blue) Auto DiSEqC



It is a very useful function to easy installing your system without knowledge of what kind of signal or LNB your receiver is connected to. Press button, it will automatically detect DiSEqC connecting and set the right configuration of LNB as well. It will show you the connecting status, you just need to press " **OK** " button to scan the services of connected satellites.

9.2.2. Auto Installation



"Auto Installation" is a very new and convenient function. It will automatically detect all dishes connecting to this machine and scan the available services belonging to the satellite matched according to satellites and transponders data in current database. You don't have to input any parameter of your antenna settings. Just press " **OK** " button to enter this "Auto

Installation" menu then it starts scanning and shows you the result at the end of scanning.

- **(Red)Stop**

Stop the automatically checking.

- **(Green) Continue**

Continue the automatically checking

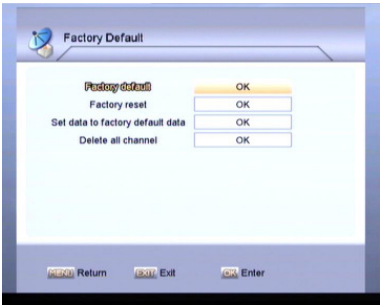
- **(Yellow) pause**

Pause the automatically checking

9.2.3. Guidance of installing a dish

Refer to the "Install your dish" part of the chapter "Easy Install" in this manual.

9.2.4. Factory Default



- **Factory default**

It is an item to load the default data to current database by press " **OK** " button.

- **Factory reset**

Press " **OK** " button it will recover all database to the same as factory default settings, then it will automatically go to "Easy Install" menu to re-install your system.

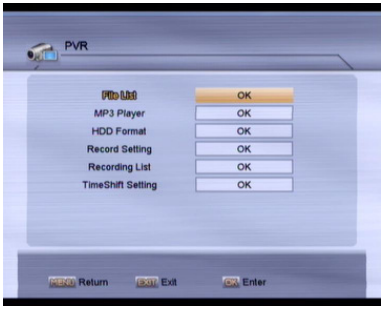
- **Set data to factory default data**

Press " **OK** " button to set current data as default data.

- **Delete all channel**

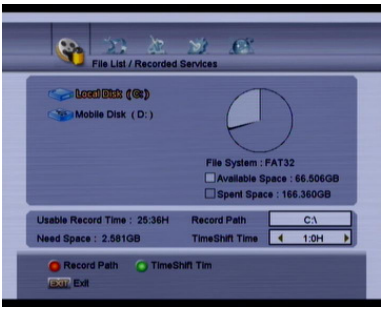
To delete all channels by using " **OK** " button.

9.3. PVR (optional, only for PVR ready receivers)



9.3.1. File List

Press " **OK** " button on this item to enter the File List menu.



- **Record Path**

Press (Red) button to change the Record Path, select the path and press (Red) button again to confirm.

- **TimeShift Time**

Press (Green) button to select **TimeShift Time** item, use ◀, ▶ buttons to select the length of Time Shift time among **0:10H, 0:30H, 1:0H, 1:30H, 2:0H, 2:30H, 3:0H** and **4:0H**.

Select a disk and press " **OK** " button to enter the file list submenu. The file list has 5 lists. They are **Recorded Services**, **MP3**, **Image**, **Software** and **Others**. The lists are select by ◀, ▶ buttons. The File List is displayed by pressing button.

A. Recorded Services List

You can see the file number, file name, date of recording, information of scramble, locking, Service name, event information, file size, HDD information, etc.

i. **(Red) Sort**

You can Sort the list by press (Red) button.

ii. **(Green) Options**

It is very convenient function to Mark the desired services with different **options**.

iii. **(Yellow) Edit**

a) A new folder can be made by select **"New folder"** item, the keyboard will displayed input the name and press (Red) button to confirm.

b) Select the files you want to move, then select "**Move to folder**" item, the list of Folders will appear. You can select a folder you want.

c) You can Rename the file or folder by select "Rename" item.

d) Select "Delete" item after selecting the files (or folders) you want to delete. You have to confirm it at Confirm box.

e) Select "Lock" item after selecting the files (or folders) you want to restrain or lock.

iv. **(Blue) Add Play List**

Mark the desired recorded services by press " OK " button, add to the current play list using (Blue) button.

v. **(White) Show Play List**

To show the Play List by using (White) button.

vi. **Playback**

To playback the selected file, press ▶ button.

Press " **OK** " button to select the services among the recorded services list and press ▶ button to playback the multi-services in sequence automatically.

B. MP3 File List

The file list is displayed by pressing button. The file list of MP3 can be selected by ◀ , ▶ buttons from other list.

i. **(Red) Sort**

You can Sort the list by press (Red) button.

ii. **(Green) Options**

It is very convenient function to Mark the desired services with different **options**.

iii. **(Yellow) Edit**

a) A new folder can be made by select "**New folder**" item, the keyboard will displayed input the name and press (Red) button to confirm.

b) Select the files you want to move, then select "**Move to folder**" item, the list of Folders will appear. You can select a folder you want.

c) You can Rename the file or folder by select "**Rename**" item.

d) Select "**Delete**" item after selecting the files (or folders) you want to delete. You have to confirm it at Confirm box.

iv. **Play**

To play the selected file, press ▶ button.

Press " **OK** " button to select the files among the MP3 list and press ▶ button to play the multi-files in sequence automatically.

C. Image File List

The file list is displayed by pressing button. The file list of Image can be selected by ◀ , ▶ buttons from other list.

i. **(Red) Sort**

You can Sort the list by press (Red) button.

ii. **(Green) Options**

It is very convenient function to Mark the desired services with different options.

iii. **(Yellow) Edit**

a) A new folder can be made by select "**New folder**" item, the keyboard will displayed input the name and press (Red) button to confirm.

b) Select the files you want to move, then select "**Move to folder**" item, the list of Folders will appear. You can select a folder you want.

c) You can Rename the file or folder by select "**Rename**" item.

d) Select "**Delete**" item after selecting the files (or folders) you want to delete. You have to confirm it at Confirm box.

iv. **Play**

To play the selected file, press ▶ button.

Press " **OK** " button to select the files among the Image list and press ▶ button to play the multi-files in sequence automatically.

D. Software File List

The file list of Software can be selected by ◀ , ▶ buttons from other list.

E. Others

Can display all folders and all files of the selected folder or disk.

9.3.2. MP3 Player

You can start the MP3 Player by pressing the " **OK** " button on this item if the Player is already used before.

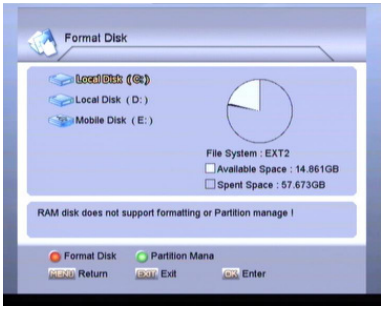
If you first time to use, please refer to the MP3 File List/ Play in this manual.

9.3.3. HDD Format

You can Format Disk or Partition Disk in this menu. Formatting Hard Disk will delete all the data and the

files recorded in HDD permanently. If a new HDD is installed, it should be formatted because the file structure of PVR is different from others.

You cannot use the Time shift, Recording and playback functions with an unformatted HDD.

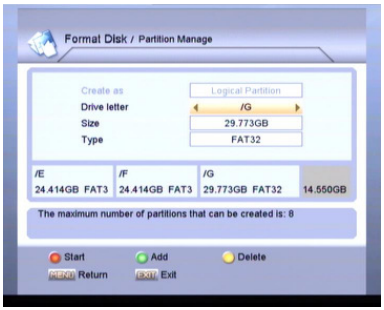


A. (Red) Format Disk

Select the desired Disk to Format in Disk list and press (Red) button, select Format Type (FAT32 or EXT2) in the pop menu, then confirm format by select 'YES' item.

B. (Green) Partition Manage

To enter the Partition Manage submenu, Press (Green) button in this menu and select the HDD (Local Disk or Mobile Disk) by press " **OK** " button.



I. Press (Green) button to Add a partition. Move the highlight to "**Size**" item, using ◀ , ▶ or Numeric buttons to change the size of the partition.

You can select Type (FAT32 or EXT2) of the partition on "**Type**" item.

The maximum number of partitions that can be created is 8.

II. Press (Yellow) button to Delete the selected partition.

When completed above settings, it should be press (Red) button to Start Format.

9.3.4. Record List

- You can enter Record List menu directly from here by press " **OK** " button if the PVR is recording now.
- You can also enter this menu by press (White) button when watching the program.

9.3.5. Time Shift setting

- **Enable**

It is used to turn on or turn off the time shift function by using ◀ , ▶ buttons.

ON: To enable the Time Shift function.

OFF: To disable the Time Shift function.

- **Time shift path**

Press " **OK** " button to select partition and press (Red) button to save and exit, or press (Green) button to make a new file in the partition that you choosed.

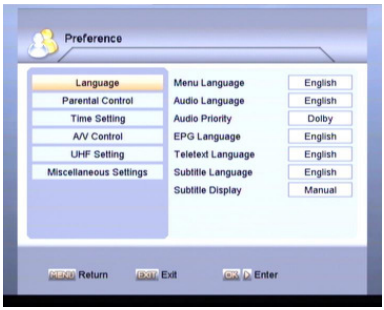
- **Time shift time**

Press ◀ or ▶ button to select time(0:10H, 0:30H, 1:0H, 1:30H, 2:0H, 2:3H, 3:0H, 4:0H).

9.4. Preference

9.4.1. Language

There are many languages available for the menu.



- **Menu Language**

It is an item for changing the language of the Main menu.

Select the language that the menus will be shown in.

The supported language can be changed without any notice.

- **Audio language**

It is an item for changing the language of the Audio.

If more than one audio language is transmitted, you may select one language among the language transmitted by press ? button.

The supported language can be changed without any notice.

- **Audio Priority**

You can select the Audio Priority among Dolby and language by press " **OK** " button.

- **EPG Language**

It is an item for changing the language of the EPG.

- **Teletext Language**

It is an item for changing the language of the Teletext.

As long as the services support it, the Teletext language is changeable by press button on your RCU.

The supported language can be changed without any notice.

- **Subtitle Language**

It is an item for changing the language of the Subtitle.

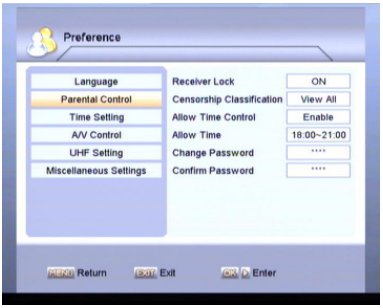
As long as the services support it, the Subtitle language is changeable by press button on your RCU.

The supported language can be changed without any notice.

- **Subtitle Display**

Select the mode of Subtitle display among Manual and AUTO by using " **OK** " button.

9.4.2. Parental Control



- **Receiver Lock**

It is an item for lock the receiver or not.

OFF: means unlocked.

ON: means controlling the access to the specific menus with the PIN code system. The default PIN code is **0000**.

- **Censorship Classification**

This item blocks programs according to each specific setting.

Use " **OK** " button to select items below.

View All: Access to everyone.

Lock All: Access to no one without PIN code.

7~18: Inaccessible for viewers within each minimum age limit if a maturing rating of the event is same or lower than the age limit.

In case of inaccessible, the PVR asks the PIN Code and check the age limit.

- **Allow Time Control**

This item blocks programs according to each specific setting.

Disable: Access for all the time.

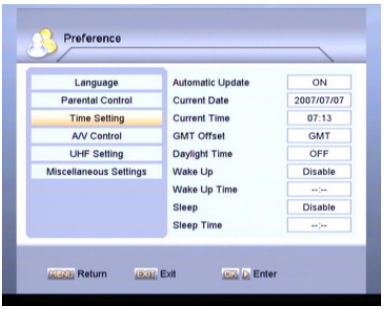
Enable: Access for specific allow time period.

In case of out the allow time period, the PVR asks the PIN Code.

- **Change Password**

Go to the Change Password item to configure new PIN Code. Enter the PIN code by using the numeric buttons on your RCU.

9.4.3. Time setting



The exact local current time can be adjusted by using the Automatic Update, the GMT Offset and the Daylight Time sub menus.

- **Automatic Update**

By using " OK " button, you can select ON/OFF.

When the Automatic Update is set to ON, it updates the time settings automatically by the GMT received from the broadcast and the GMT Offset you have inserted. The Automatic Update ON mode is recommended.

- **Current Date/Time**

The Current Date/Time is adjustable only when the Automatic Update is in the ON mode. Adjust the current date/time by using the numeric buttons.

- **GMT Offset**

The current time of the local area can be inserted. In another word, insert the time difference of the local time zone from the GMT. The time is adjustable by using " **OK** " button.

- **Daylight Time**

Select ON or OFF to turn on or turn off the Summer Time.

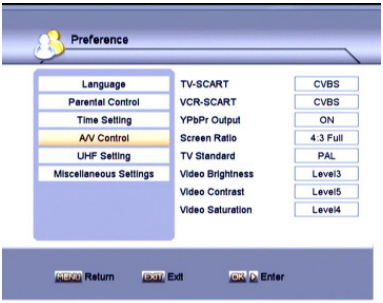
- **Wake Up Time**

It is an item to set the Wake Up Time or not.

- **Sleep Time**

It is an item to set the Sleep Time or not.

9.4.4. A/V Control



- **TV-SCART**

Select the mode of Video output between RGB and CVBS on TV SCART by using " **OK** " button.

- **YPbPr Output**

ON: Enable the YPbPr output

OFF: Disable the YPbPr output

- **Screen Ratio**

Select your TV screen format among AUTO, 16:9 Full, 4:3 Full, 16:9 Letter Box and 4:3 Letter Box by using " **OK** " button.

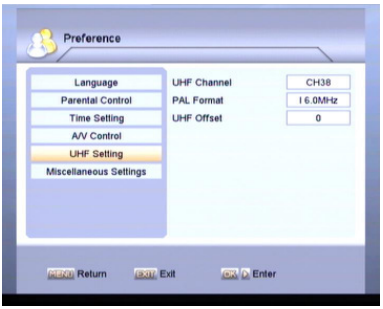
- **TV Standard**

Select your TV Standard among PAL, NTSC, SECAM, 720P and 1080i by using " **OK** " button.

- **Video Brightness/Contrast/Saturation**

You can adjust the parameter about the Video image by using the " **OK** " button. The default value is Level 14.

9.4.5. UHF Setting



When the PVR is connected to the TV by an RF cable, you may need to select the correct TV standard system.

- **UHF Channel**

Select a RF channel by using " **OK** " button. The default RF channel is CH38. When you change the RF channel number, you must also change to the same value on the TV. If you do not, there will be no picture and sound.

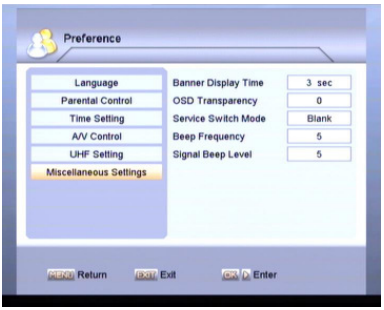
- **PAL Format**

Select the D/K 6.5MHz, B/G 5.5MHz, I 6.0MHz, M 4.5MHz by using " **OK** " button. The default PAL Format is I 6.0MHz.

- **UHF Offset**

Change the value of the UHF Offset by using " **OK** " button. The default value is **0**.

9.4.6. Miscellaneous Setting



- **Banner Display Time**

Adjust the time-out of the info Box. Set the period of time that the info Box is displayed on screen. The adjustable time is 1 to 30 seconds.

- **OSD Transparency**

Adjust the OSD Transparency of all the menus. The available levels are ranging from 0 to 100%.

- **Service Switch Mode**

Select the Service Switch Mode among Blank, Fade in/out and Unblank by using " **OK** " button.

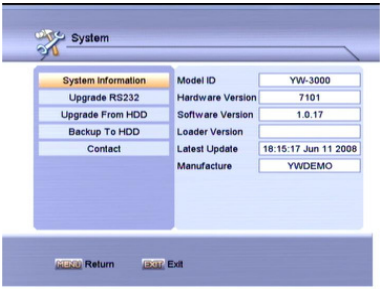
- **Beep Frequency**

Adjust the Beep Frequency. The adjustable frequency is 1 to 10.

- **Signal Beep Level**

Adjust the Beep Level of the signal. The adjustable level is 1 to 8, and OFF.

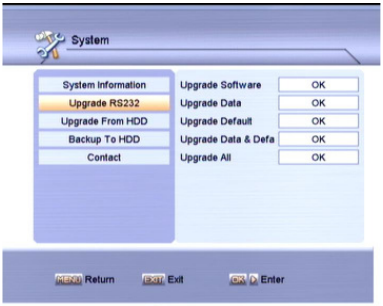
9.5. System



9.5.1. System Information

Check the HD Receiver's system information here. It shows the Model ID, Hardware Version, Software Version, Loader Version, Latest Update and Manufacture

9.5.2. Upgrade RS232



This item is very convenient to transfer HD Receiver content such as software, data or default data to other HD Receiver for upgrading the HD Receiver via the RS232.

- **Upgrade Software**

It is used to transfer HD Receiver Software to other HD Receiver for upgrading the HD Receiver.

- **Upgrade Data**

It is used to transfer HD Receiver Data such as service information to other HD Receiver for upgrading the HD Receiver

- **Upgrade Default**

It is used to transfer HD Receiver factory Default data to other HD Receiver for upgrading the HD Receiver .

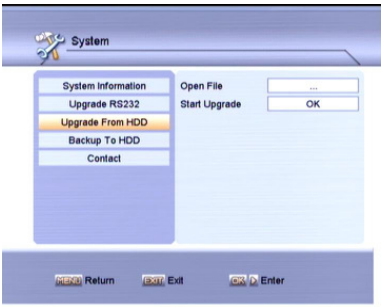
- **Upgrade Data & Default**

It is used to transfer HD Receiver current Data and the factory Default data to other HD Receiver for upgrading the HD Receiver .

- **Upgrade All**

It is used to transfer HD Receiver All (include software, data and default data) to other HD Receiver for upgrading the HD Receiver.

9.5.3. Upgrade from HDD



In this menu you can upgrade the software from USB hard disk conveniently.

- **Open file**

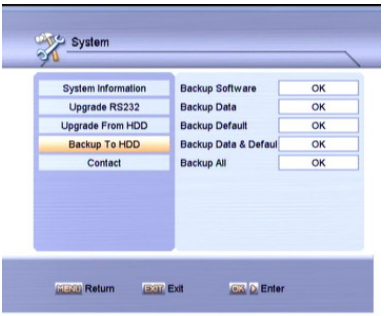
The open file item is for select the appropriate software file from USB hard disk.

- **Start upgrade**

After you select the "**Upgrade File**", press " **OK** " button on "**Start upgrade**" item, the receiver can upgrade automaticlly.

You can also Press Archive Button to direct enter the" **upgrade from HDD**" meun list

9.5.4. Backup to HDD



- **Backup Software**

It is used to backup software to USB hard disk, select path and assign the file name then press ' OK ' to start backup.

- **Backup data**

It is used to backup data to USB hard disk, select path and assign the file name then press ' OK ' to start backup.

- **Backup Default**

It is used to backup default to USB hard disk, select path and assign the file name then press ' OK ' to start backup.

- **Backup Data & Default**

It is used to backup Data & Default to USB hard disk, select path and assign the file name then press ' OK ' to start backup.

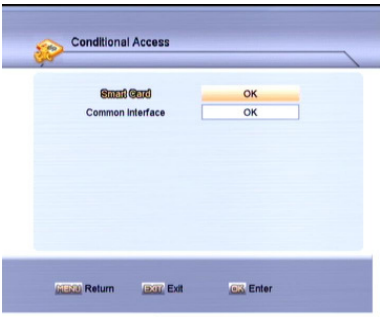
- **Backup all**

It is used to backup all to USB hard disk, select path and assign the file name then press ' OK ' to start backup.

9.5.5. Contact

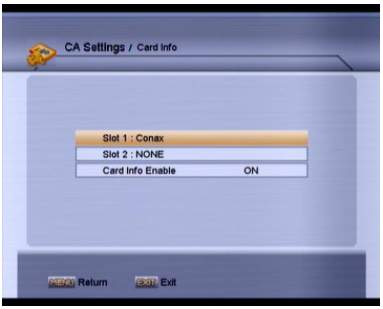
This menu to show the dealer's information such as Name, Telephone and Website.

9.6. Conditional Access (optional)



9.6.1. Smart card

We provide two CA slots for user to use. Receiver has build in smart card module with CONAX system. By using cards in this system provided by operators, it is possible to watch many scrambled channels coded in this system. This menu shows detailed information about cord inserted into cord reader module. It allows inserted according to help messages visible on the bottom of the screen.



Note:

All information showed in this menu and submenu are coming from inserted card. In case if anything is wrong, it could be card problem. After inserting the card correctly at any time, a message-box will show on the screen with message about detecting the card, in "card info" menu all available information will be displayed.

Card info enable

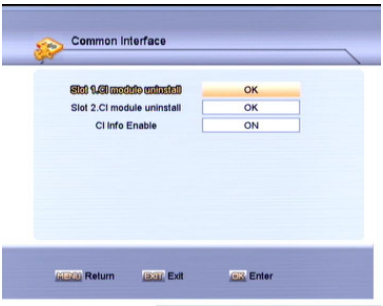
It is used to turn on or turn off the card info display function by using ◀ , ▶ buttons or " **OK** " button to select.

ON: To display the card info.

OFF: Don't display the card info.

9.6.2. Common interface (optional)

We provide two CI slots for user to use. Using different CAM & cards provided by different CAS operator, user can view many type or scrambled channels.



We provide this menu to display the detail information of the CAM & cards inserted in the slots. User can check all this information according to the help message at the bottom of each menu.

Note: All information showed in this menu and submenu is abstract from CAM & card. In case something is wrong, it may be the problem of CAM or card.

When you insert the CAM correctly at any time, a message will show in the screen to tell you that which CAM has been detected by the receiver and is available now.

CI Info Enable

It is used to turn on or turn off the ci info display function by using ◀ , ▶ buttons or " **OK** " button to select.

ON: To display the ci info.

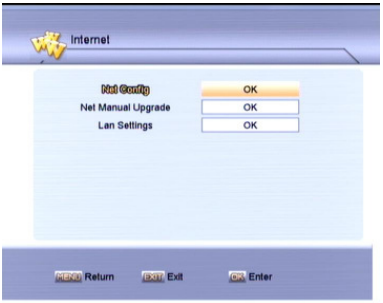
OFF: Don't display the ci info.

9.7. Internet (optional)

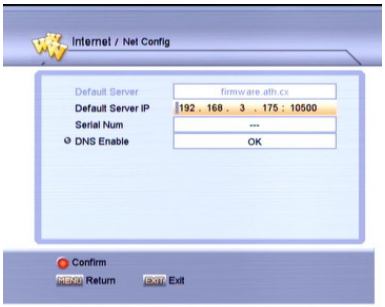
You can get a new software from the network via LAN port.

Select the Main Menu >Internet menu.

You should see a screen like the following figure.



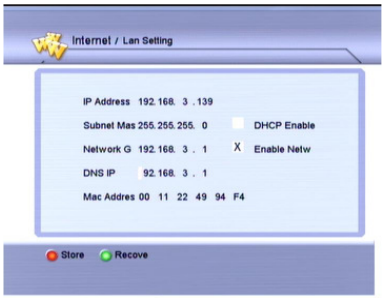
9.7.1. Net config



In this menu you should assign the Server IP or set the "DNS Enable" On by press " **OK** " button, and maybe you need assign the "Serial Num" Of the receiver, by press ▭ button to confirm.

This above information you can get it from your dealer.

9.7.2. Lan Settings



In this menu you may assign a dynamic IP address to the digital receiver. To do so, select the DHCP Enable.

If you have a static IP address, unselect the DHCP Enable, then the IP Address, Subnet Mask and Network Gateway options become

enabled. You have to set these options according to your IP address.

Press ▭ (Red)button to Store the modification.

Press 📖 (Green) to Recover the parameters.

9.7.3. Net Manual Upgrade

In this menu press ▭ (Red) button to connecting to the server.

When connected to the server, the available file list will displayed like the following picture, you can see the information about the software files, like state, version, type, date.

Internet / Net Manual Upgrade
State Version Type Date
!!! 1.0.13 Upgrade Software 2008-6-17 9:56:44
!!! 1.0.14 Upgrade Data 2008-6-14 14:29:20
!!! 1.0.15 Upgrade Default 2008-6-17 9:38:50
!!! 1.0.16 Upgrade Loader 2008-6-17 9:41:26
!!! 1.0.17 Upgrade All 2008-6-11 18:16:38
!!! 1.0.18 Upgrade All 2008-6-13 14:31:40
!!! 1.0.19 Upgrade All 2008-6-16 9:43:06
Upgrade
disconnect
Detail
MENU Return
EXIT Exit

Then you can choose the file which you need, pressing ▭ button to upgrade the software.

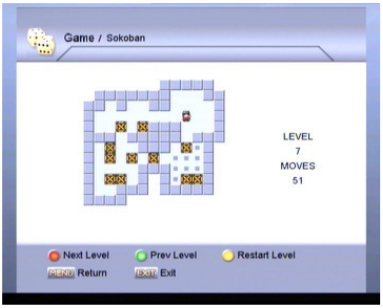
Press 📖 Green) button to disconnect from the server.

Press ↻ (Yellow) button to display the detail information about the software files.

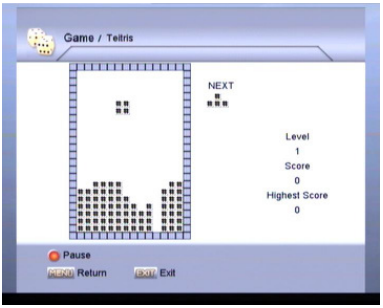
9.8. Game

In this menu, we provide four interesting games for you to enjoy, please choose one and according the indicate information to play it.

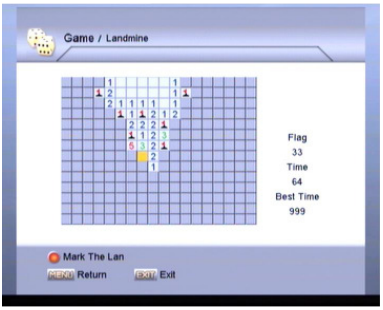
9.8.1. Sokoban



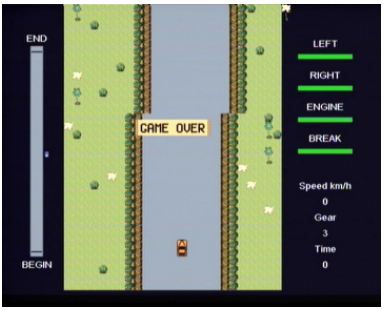
9.8.2. Tetris



9.8.3. Landmine



9.8.4. Speed



10. Function guide

10.1. Ok list

Press " **OK** " to see the OK List. The OK List consists of services belonging to current group with small video window and associated information (service name, TP, satellite, scrambled symbol,HD sambol,current/next EPG overview information if any) in the middle-right of the menu.

By using some buttons in the service list, you can use the functions as follows.

(Red) button: You can change the group of services by pressing (Red) button.

Complete-- means list all services.

Satellite-- means list services belonging to certain satellite you chose only.

Favorite-- means list services belonging to certain FAV group you chose only.

Provider-- means list services belonging to certain provider you chose only.

CAS-- means list services belonging to certain CAS you chose.

HD-- means list services belonging to certain HD group you chose.

(Green) button: view detail EPG information of current service.

(Yellow) button: Enter the "Property" submenu, in this menu you can set current service's FAV, Lock or Skip state, also you can Delete/Rename the current service.

(Blue) button: Sort service list by service No.(Numeric), service name(Abc), scrambled services after free services(Free+CAS), free services after scrambled services(CAS+Free) or one transponder by one(TP).

button: Locate certain service by name quickly.

i button: Display detail information of current service (channel name, satellite & transponder, provider name and CAS name, etc).

▲, ▼, " **P+ , P-** " **buttons:** Browse the list, then press " **OK** " button to switch the viewing service to the highlight one.

button: change list from TV services to Radio services or verse.

0~9 buttons: Switch to the certain service directly.

10.2. EPG

(Red) Group

It is very convenient to select the services by different Groups using (Red) button.

(Green) Options

You can select display mode of the EPG among Now, Next, More, Schedule and Genre.

Now:

The menu displays as the following:

- Service list, Group information
- Current event name, duration, progress bar, DETAIL icon if detail event information is available
- Small video window

Next:

The menu displays as the following:

- Service list, Group information
- Next event name, duration, DETAIL icon if detail event information is available
- Small video window
- *i* **button:** view event detail information if it has a DETAIL icon.

More:

The menu displays as the following:

- Service list, Group information
- Time bar with 1 hour as step
- Event name, duration, DETAIL icon if detail event information is available
- ◀, ▶ **button:** switch the event information of current service if any or skip the time with step of

1 hours if there is no event information of current service

- **i button:** view event detail information if it has a DETAIL icon.

Schedule:

The menu displays as the following:

- Current service name, Group information
- Day bar for whole week, current day information
- Event name, duration, DETAIL icon if detail event information is available
- **button (Blue):** select new service belonging to current group
- ◀ , ▶ **button:** switch current day of one week
- **i button:** view event detail information if it has a DETAIL icon

Genre:

The menu displays as the following:

- Current service name, Group information
- Day bar for whole week, current day information
- Event name, duration, DETAIL icon if detail event information is available
- button (Blue): select new genre
- ◀ , ▶ button: switch current day of one week
- i button: view event detail information if it has a DETAIL icon

(Yellow) Timer

A. To insert new entry of Timer Setting, press (Yellow) button. Select a mode among Timer list and HDD Recorder using ▲, ▼ buttons, then press " OK " button to enter the timer list .

In the timer list menu you can press (Yellow) button enter the timer configuration menu.

Service Name: Select the service to be reserved for recording by pressing " **OK** " button.

Event Name: display the Event Name if it is available on the program

Start Time: Select the start time. ◀ , ▶ buttons and numeric buttons are available.(consisted of date and time)

Stop Time: Select the stop time. ◀ , ▶ buttons and numeric buttons are available. (Consisted of date and time)

Repeat: By using ◀ , ▶ or " **OK** " buttons, select one among 1X, 1D, 1W, 1-5 and 6-7.

Timer Mode: Select a Timer Mode among VCR and Service Change

B. In the timer list menu you can Using (Red) or (Green) buttons to Delete or Modify the entries of Timer selected by pressing " **OK** " button.

C. In the timer list you can Using " P+ , P- " buttons to up or down pages if the Detail Information more than one page.

button: Locate certain service by name quickly.

i button: Display detail information of current service (channel name, satellite & transponder, provider name and CAS name, etc).

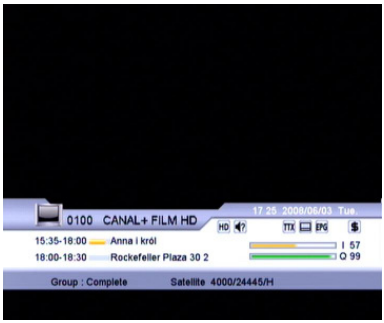
▲, ▼, **" P+ , P- " buttons:** Browse the list, then press " **OK** " button to switch the viewing service to the highlight one.

button: change list from TV services to Radio services or verse.

0~9 buttons: Switch to the certain service directly.

10.3. Information Box

Press i button on the RCU or change services to see the program and EPG information. The Information Box displays as follows:



- Service Number
- Service Name
- Service Type (TV or Radio)
- Current Group
- Current Time and Date
- Current and Next Event Name
- Signal Level and Signal Quality Bar
- Subtitle, Teletext, EPG, Multifeed Audio, Scrambling Service Symbol (These are automatically displayed when the broadcasting station provides appropriate information)
- Parental Lock
- FAV Symbol
- HD Symbol

If you press i button to enter this "Information Box":

Press (Red) button to choose the group to view service (Complete, Satellite, Favorite, Provider, CAS and HD).

Press (Green) button to check EPG detail information page by page.

Press (Yellow) button to enable the "Property" menu to set current service's FAV, Lock or Skip state, delete/rename current service

Press button to check service's detail information (Transponder, Provider name, CAS name, etc.)

10.4. Changing Services

To change services, there are 4 sets of buttons available:

- Press the 0~9 buttons to input certain service No. directly
- Press the ▲, ▼ button to browse service one by one
- Press the TV/Radio button to switch between TV and Radio services
- Press the button to select the previous viewed service

10.5. Volume Control

To adjust the volume level, use the ◀ button or ▶ button.

To temporarily stop the volume, press the button.

To cancel mute, press the button again or press the ◀, ▶ buttons.

10.6. Sound track & Multifeed Audio

Press button to enter "Audio" menu. You can choose a language of soundtrack by when the broadcaster supports various languages of audio. And also for multifeed available services, it is possible to choose one of the multilingual audio too.

At "Soundtrack" item, use ◀, ▶, or " **OK** " button to choose soundtrack among Left, Right and Stereo.

At "Multilingual" item, use ◀, ▶ or " **OK** " button to choose the language of multilingual audio if any.

*Be noticed that the above setting is for current service only. When new service is viewed, the soundtrack and language settings will return to what was selected in the viewing service.

10.7. Teletext & Subtitle

If the broadcaster supports Teletext or Subtitle, the Teletext or Subtitle icon will be displayed on the "Information Box". There are VBI insertion mode and soft emulation mode in Teletext. In the VBI insertion mode, which is always on, you can watch the Teletext with your TV using the RCU of your TV. To watch Teletext with VBI insertion, your TV must support Teletext. In the software emulation mode, you can watch the Teletext using the RCU of PVR, event though your TV does not support Teletext.

Press button to setup and watch Teletext. Use ▲, ▼ and " OK " button to select the language of multilingual Teletext or disable Teletext display by using " EXIT " or " MENU " button.

Press button to setup and watch Subtitle. Use ▲, ▼ and " OK " button to select the language of Multilingual Subtitle or disable Subtitle display by using " EXIT " or " MENU " button.

10.8. Pause & Resume

To pause the live video, press ❚❚ button, you can save this picture by pressing " **F1** " button, and then you can use this picture as boot background by press (Red) button or as Radio background by press (Green) button, press (Yellow) button to load the default picture.

To resume the video, press ▶ button.

10.9. Zoom

To zoom the live video, press button. There are four modes: "Zoom 1X", "Zoom 4X", "Zoom 9X" and "Zoom 16X". You can switch the modes by pressing button one by one times and using ▲, ▼, ◀, ▶ buttons to change the view area.

10.10. Time Shift (optional, only for PVR ready receivers)

- To use Time Shift function, the Time Shift option should be enable.

To find the Time Shift option menu, follow the steps below.

Main Menu→ PVR→ Time Shift Enable→ ON

- Press ▶ button to display Time Shift progress bar. You have to press ▶ button once more to display Time Shift progress bar during Trick mode. (such as Fast Forward, Reverse Playback, Slow motion)

- To go to the desired playback position, press ◀◀ or ▶▶ button, the PVR plays every 20 seconds by pressing ◀◀ or ▶▶ button. This function is valid while the Time Shift progress bar is long displayed. When the time shift progress bar is small displayed, you can use ◀◀ or ▶▶ button to decelerate or quicken up playing(-2,-4,-8,-16,-32,-64,-128,2,4,8,16,32,64,128) than normal.
- To remove the Time Shift progress bar at once, press "**EXIT**" or ▶ button.
- To go to the live video, press ■ button.
- To Pause the video press ❚❚ button, press "**EXIT**" button or ▶ button to quit pausing.
- To add a bookmark, press Bookmark (Green) button at the position you want to add it.
- Press Go to bookmark (Yellow) button to jump to the next bookmark. Then the PVR plays from the book marked position.
- To remove a bookmark, you have to display the progress bar by pressing ▶ button. Select the bookmarked position by Go to bookmark (Yellow) button and press bookmark (Green) button.

10.11. Recording, Edit the reserved delayed Recording (optional, only for PVR Ready receivers)

To record services, refer to the following steps, there are three kinds of recording references. You can record maximum 2 services at the same time.

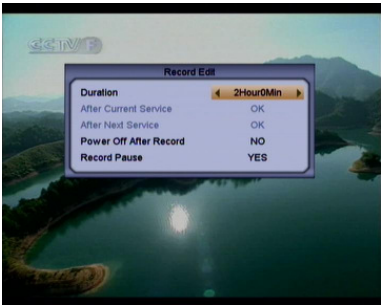
10.12. Immediate Recording by RECORD ● button (optional, only for PVR Ready receivers)

- **Recording**

Press ● button to record the service you are watching. To specify the stop time, go to Record Edit window and modify Duration item. To go to the Record Edit window, press ⏎/▶▶| (White) button, or go to the record list in main menu.

- **Record Edit**

To see Record Edit menu, press ⏎/▶▶| (White) button and than press "OK" button, or go to the record list in main menu. You can modify the parameters of the recording.



A. Duration

To change the duration of the recording time, press ◀ , ▶ or numeric buttons.

B. Power Off After Record

Power off the PVR after recording stopped.

C. Record Pause

To pause recording, select **YES**.

To restart recording, select **NO**.

- **Stop record**

Press ■ button and select the service to stop the Recording by press "OK" button.

10.13. Recording by EPG (optional, only for PVR Ready receivers)

Press "EPG" button to display EPG. Select a service that you want to record, and press (Yellow) button to enter Timer Configuration menu. For more information please refer to EPG/ Timer in this manual.

10.14. Playback a Recorded Service (optional, only for PVR Ready receivers)

- Press button to display the recorded service list.
- You can use several useful editing function at Recorded Services as followings.

A. New folder: press (Yellow) button select **New folder** to make new folder.

B. Copy Press (Yellow) button select **Copy** to copy the document to other logic disk.

C. Cut: Press (Yellow) button select **Cut** to remove the document to other logic disk(don't save original document).

D. Rename: Press (Yellow) button select **Rename** to rename the recorded service or the folder.

E. Delete: Press (Yellow) button select **Delete** to delete the recorded services or folders.

F. Lock: Press (Yellow) button select **Lock** to lock the recorded services or folders.

G. Sort: Press (Red) button to Sort by File Name, Data, Size or Lock.

H. Options: Press (Green) button to select the recorded services by different types.

I. Find: Press button to found the services by name.

J. Event Info: Press *i* button to display extended event information.

- Select a recorded service at the list.

- Press ▶ button to start playback.
- Press ▶ button to display Time Shift progress bar. You have to press ▶ button once more to display Time Shift progress bar during Trick mode. (such as Fast Forward, Reverse Playback, Slow motion)
- To go to the desired playback position, press ◀◀ or ▶▶ button. This function is valid while the progress bar is displayed.
- Press ▶ button into Trick mode, you can enter

the position by percent with numeric button of RCU, the playback position will be moved to the point.

- Press "**OK**" button to select the services among the recorded services list and press ▶ button to playback the multi-services in sequence automatically.
- You can press ⊞ (Blue) button add the selected services into Play List.
- Show the Play List by press ⮂/⏭ (White) button.

10.15. Slow Motion Playback

- To playback in slow motion, press the ◀‖/‖▶ button.
- Press ▶ button to resume playback with normal speed.
- The slow motion function is available for the playback and the time shift playback.

10.16. Fast Motion Playback

- If there is a Time Shift or Playback, Press ◀◀ or ▶▶ button for fast motion playback.

- To change the playback speed, press ◀◀ or ▶▶ button repeatedly, there 7 steps (2, 4, 8, 16, 32, 64, 128) in fast motion playback.
- Press ▶ button to resume playback with normal speed.

10.17. MP3 Player

- Press 🗀 button to display the recorded services list.
- Press ◀ , ▶ buttons to go to **MP3 list**.
- The useful editing function please refer to above **Playback a Recorded Service**.
- Select one or more MP3 files by press "**OK**" button in the list.
- Press ▶ button to start **MP3 Player**, or press "**OK**" button on **MP3 Player** in the PVR menu.

- Press *i* button to display Help Information:

A. PIP--Display the video in sub-picture by press ▭ (Red) button.

B. Service--You can press 📖 (Green) button to change the service of sub-picture.

C. Move--You can move selected songs to the desired position by using ⊞ (Blue) button and ▲, ▼ buttons.

D. Delete --To delete the selected songs by pressing 📖 (Yellow) button.

E. Save Play List -- To save the current list by press "FAV" button. You can edit the **Path**, the **File Name** and press ▭ (Red) button to save.

F. Open Play List-- Open the Play List saved before by using "**SAT**" button.

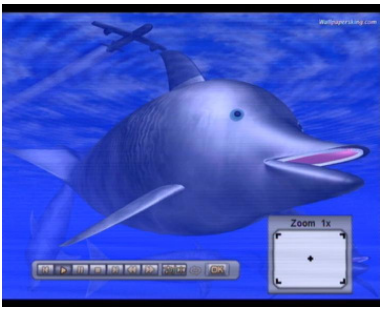
G. Add-- You can Add the selected songs into current play list by using "EPG" button.

H. Switch to Jpeg-- Switch to JPEG Player please press ⤢ button.

➢ This function is available only the **MP3 Player** and the **JPEG Player** played at the same time.

- Press ⮂/⏭ (**White**) button to change the type of circulation.
- Press ‖ button to pause the MP3 play.
- Press ■ button to exit the **MP3 player**.

10.18. JPEG Player



- Press button to display the recorded services list.
- Press ◀ , ▶ buttons to go to **Image list**.
- The useful editing function please refer to above **Playback a Recorded Service**.
- Select one or more Image files by press "**OK**" button in the list.
- Press ▶ button to start JPEG Player.(add player picture)
- **PIP**--Display the video in sub-picture by press (Red) button.
- (add player picture)
- Press *i* button to display Help Information:

A. Switch to MP3 --Switch to MP3 Player please press button.

➢ This function is available only the **MP3 Player** and the **JPEG Player** played at the same time.

B. Press (**White**) button to change the type of circulation.

C. To Rotate the picture, please press ◀◀ , ▶▶ buttons.

D. Press "OK" button to zoom the picture(zoom 1x, zoom 4x, zoom 9x, zoom 16x)

- Press ❚❚ button to pause the JPEG play.
- Press ■ button to exit the JPEG player.

10.19. Picture In Picture (PIP)

- Press (Red) button to display PIP. Press (Red) button repeatedly to change the size of sub-picture or to remove the sub-picture.
- At PIP screen, press button (Red) to exchange main-picture with sub-picture.
- Press ◀/▶ button to move the position of sub-picture.
- To display the service list of sub-picture, press (Blue) button.

10.20. Multi-Picture Display

- Press button (Blue) to display Multi-Picture.
- There are 4 modes (4 Picture, 9 Picture, 13 Picture, 16 Picture) to be selected.
- Press " EXIT " button to resume displayed with the normal mode.

11. Software Upgrade

The HD Receiver has stable and convenience software to use. But, to improve the HD Receiver the new software of the HD Receiver may be released.

Whenever a problem is found or functions are added or modified, the software in the HD Receiver has to be upgraded to enjoy better function.

There are some methods to download the new software.

- Receiver to Receiver upgrade via RS232.

  It is possible to upgrade the software or service data from Receiver to another Receiver.

- PC to HD Receiver upgrade via RS232

  You need the PC upgrade tool (AVUpgrade_ST7100.exe) to upgrade the software.

  Start upgrade at PC and turn on the HD Receiver .

- Internet

  You can upgrade the software from network via LAN port.

- USB Hard Disk

  You can upgrade the software from USB hard disk.

For more information, refer to the chapter **System**/ **Upgrade** in this manual.

12. Trouble Shooting

Problem	*Solution*
About HD Receiver	
No display VFD on the front panel. No power supply	● Check the main power cable and check that it is plugged into a suitable power outlet. ● Check whether HD Receiver is in Standby mode.
No Picture	● Ensure that the HD Receiver is switched on. ● Check the video output port (SCART) is firmly connected to ● the TV or VCR. ● Check that you have selected the correct channel or Video ● on your TV. ● Check the brightness level of the TV
Poor picture quality	● See “No Picture” above. ● Check the signal level, if this is low then try adjusting the alignment of your dish.
No Sound	● See “No Picture” above. ● Check the volume level of the TV and HD Receiver ● Check the mute status of the TV and HD Receiver
Remote Control does not operate	● Point remote control directly towards the receiver. ● Check and replace batteries. ● Check that nothing blocks the front panel.
On-Screen Error Messages	
No or Bad Signal	● Check the LNB, replace LNB if necessary. ● Check the cable from the LNB. ● Check the position of the dish, realign dish if necessary. ● If you are using a DiSEqC 1.0 , check that you have connected the LNBs to the correct connections on the switch.. ● Check the “Signal Level” and “Signal Quality ”.
Service Search	
No Signal	● See “No or Bad Signal” above. ● DiSEqC 1.0 ● Check that you have connected the LNBs to correct connections on the switch.. ● Check that you have set the connected Setting in the Installation menu. ● DiSEqC 1.2 ● Check that you have selected this in the Installation menu. ● Check that the dish is aimed at the correct satellite.

13. Specifications

SYSTEM RESOURCES	
Main Processor	400 MIPS based CPU
Flash Memory	8Mbytes
DDR SDRAM	1024+512Mbits
TUNER/CHANNEL	
Input Connector	F-type, Connector, Female
Loop Through	F-type, Connector, Female
Signal Level	-65 to -25 dBm
LNB Power & Polarization	Vertical: +13V/+14V
	Horizontal: +18V/+19V
	Current: Max. 500mA
	Overload Protection
22KHz Tone	Frequency: 22±1KHz
DiSEqc Control	Amplitude: 0.6±0.2V
	Version 1.0, 1.1 1.2, USALS Available
Demodulation	QPSK, 8PSK
Input Symbol Rate	2-45 Mbps, Convolution Code Rate
	1/2, 2/3, 3/4, 5/6, 7/8 and Auto
POWER SUPPLY	
Input Voltage	Free Voltage (100~250V AC, 50/60Hz)
Power Consumption	40W MAX
MPEG TS A/V Decoding	
Transport Stream	MPEG-2, H.264
Input Rate	Max.120Mbit/s
Aspect Radio	4:3, 16:9, Letter Box
Video Decoding	1920X1080i
Video Resolution	720*576[PAL] / 720*480[NTSC]
Audio Decoding	MPEG-1 Layers 1/2, Dolby AC-3
Audio Mode	Left / Right / Stereo
Sampling Rate	32, 44.1 and 48KHz

RF-Modulator (Optional)	
PLL type	CH21~69 for the Demodulation
TV Standard	PAL BG/I/DK selectable
RF Connector	75 Ohms, Male/Female
Frequency Range	UHF : 470~860MHz
A/V & DATA INPUT/OUTPUT	
TV-SCART	Video CVBS/RGB output
	Audio L/R output
VCR-SCART	Video CVBS output
	Audio L/R output
	Video CVBS, RGB input
	Audio L/R input
RCA A/V	1x YPbPr output
	Video CVBS output
	Audio 2x L/R output
S/PDIF	Optical Coaxial, Digital Audio or Dolby AC-3 Bit Stream Output
RS-232C	Transfer rate 115.2Kbps
	9 pin D-sub Type
USB	One USB 2.0 slot Compatible for
HDMI	VER1.2
	Type A
PHYSICAL SPECIFICATION	
Size[W*H*D]	360mm X 266mm X65mm
Net Weight	2.49 kg
Operation Temperature	0℃~+45℃
Storage Temperature	-10℃~+70℃
Storage Humidity	5%~95% RH (Non-Condensing)

14. Declaration of conformity

The manufacturer herewith declares the conformity of that product with the following directives
and standards:

Low Voltage Directive 2006/95/EG
EN 60065:2002+A1:2006

EMC Directive 2004/108/EG
EN 55 013:2001+A1:2003+A2:2006
EN 55 020:2007
EN 61 000-3-2:2006
EN 61 000-3-3:1995+A1:2001+A2:2005

Model: Digital Satellite Receiver DVB-S

CE

Manufactured under license from Dolby Laboratories.
Dolby and the double-D symbol are trademarks of Dolby Laboratories.